

Material Readiness Enabled Through “Sense and Respond”

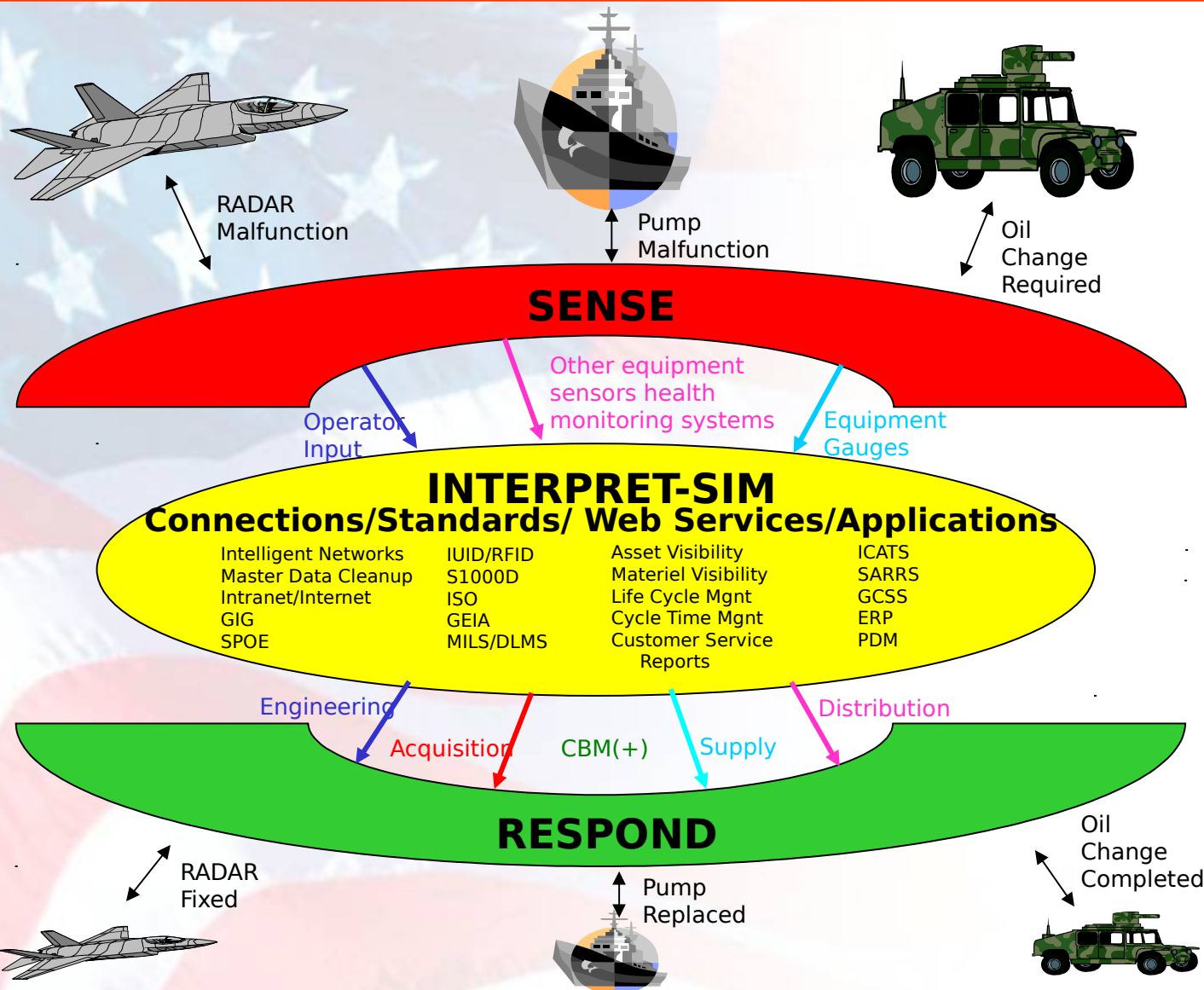
Optimized Logistics Increasing Momentum Within DoD Maintenance



John Peterson
OADUSD (Material Readiness & Maintenance Policy)



Sense-Interpret-Respond





Description

- **Sense** – An abnormal or timed event occurs
 - Sensing mechanisms are triggered:
 - Operator Input
 - CBM(+)
 - Equipment Gauges
 - Other equipment health monitoring systems
 - Sensed event/condition may effect system capability, dependability, and/or availability



Description

- **Interpret** – Understanding event condition by enabling relevant information/data systems to communicate
 - Mechanisms to facilitate data interpretation:
 - Connections – The connection of sensed data's relationship to databases of information about the situation. (e.g. IUID/SIM, MIS, WAWF, DSS, technical data, etc.)
 - Standards – Compare data standards between the database elements and convert as necessary to the desired format. (e.g. Validate/convert S1000D, GEIA, PLCS, legacy, etc. data to a common standard)
 - Web Services – The transformation of the resulting data into actionable information surrounded by security access rights (e.g. Asset visibility, materiel visibility, cycle time management, etc.)
 - Applications – The systems delivering timely and accurate information so people can make best case decisions (e.g. ERP, PDM, supply/logistics systems, etc.)

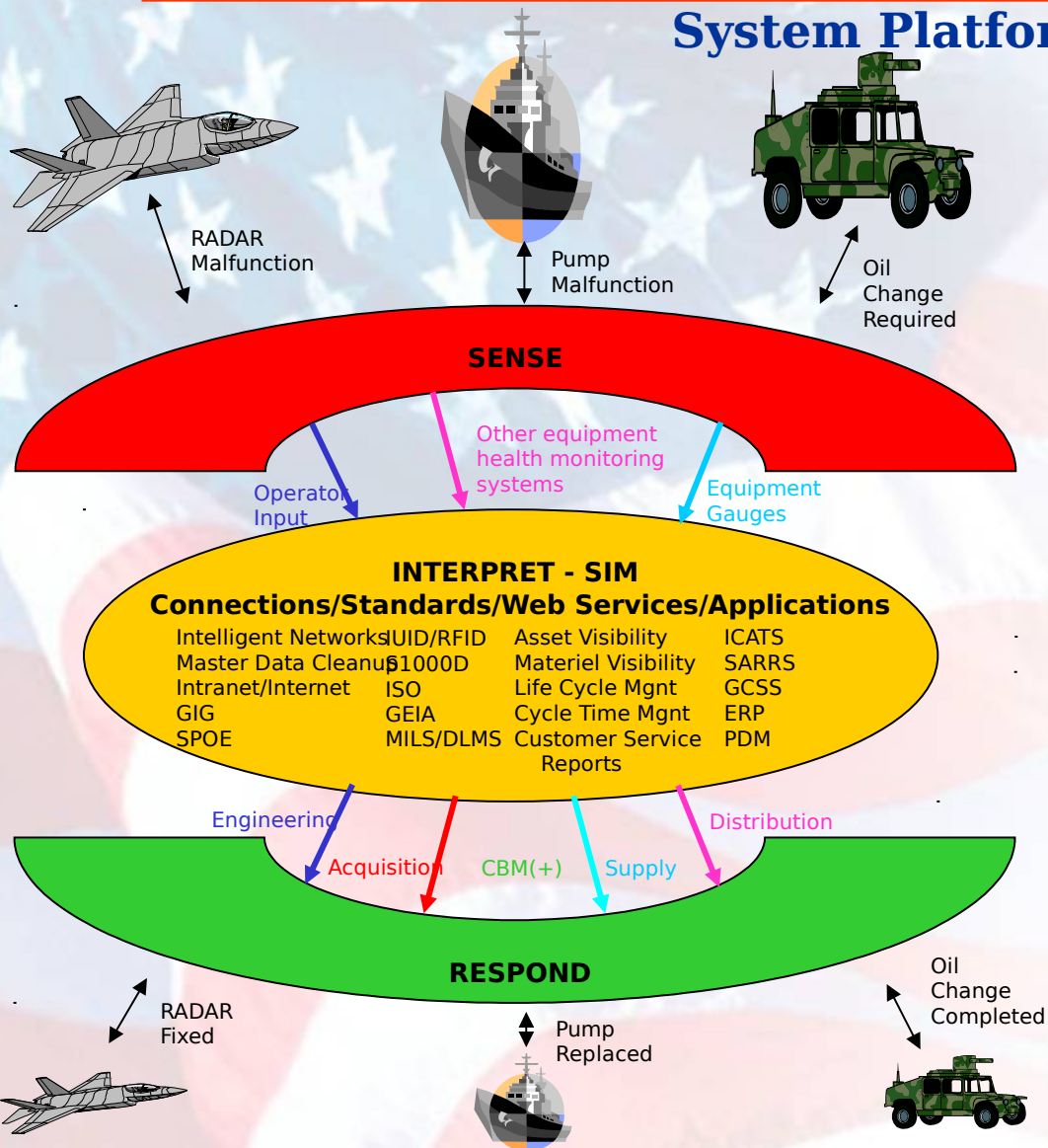


Description

- **Respond** – Restore system integrity using interpreted data for sensed event via:
 - Integrated application of functional disciplines
 - Engineering – Test/Analyze/Predict/Prevent/(re)design
 - Acquisition – Procure materiel fix(es)
 - Maintenance – Incorporate materiel fixes
 - Supply – Provide piece part support – Materiel visibility
 - Distribution – Deliver required materiel to the right location at the right time
 - System materiel readiness restored effectively and efficiently



Business Processes and IT Technology Stack Required to Deliver a Common Maintenance Process to a Weapon



Core S&R Functions	Weapon System Programs				
	Marine LAV Sensor, IUID, data	Joint Strike Fighter - PM S&R, SPOE, ICATS, data	HMMWV TARDEC PLCS, IUID, data	H60 ELITE PLCS	DDX/FCS
Sense & Respond	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interpret Connections (Intelligent Network, Master Data Cleanup)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interpret Standards (PLCS, S1000D, GEIA, IUID/RFID, etc.)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>
Interpret Web Services (ICATS)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>
Interpret Applications (ERP, PDM/PLM, Supply/Logistics Systems)	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>



Status and Next Steps

Core S&R Functions	Weapon System Programs				
	Marine LAV Sensor, IUID, data	Joint Strike Fighter - PM S&R SPOE ICATS data HMMWV TARDEC PLCS, data	H60 ELITE (PLCS)	DDX/FCS	
Sense & Respond	●	●	●	○	○
Interpret Connections (Intelligent Network Master Data Cleanup)	●	●	●	○	○
Interpret Standards (PLCS, S1000D, GEIA, IUID/RFID, etc.)	●	●	●	●	○
Interpret Web Services (ICATS)	●	●	●	○	○
Interpret Applications (ERP, PDM/PLM Supply/Logistics Systems)	●	●	●	○	○

Next Steps







- Continue to participate with Marine LAV and UMD (F-18) to enable S&R, IUID, master data cleanup and data interoperability
- Continue to rationalize the various data interoperability programs
- Work with BTA on SPOE and next generation GIG rationalization
- Work with TLCSM and LPP to select software vendors/standards to enable required capabilities in design and sustainment (CLOE vs. JALog vs. SPAWARS vs. BWS vs. Etc.)
- Work with BTA on materiel visibility programs to take current functionality and expand it to other Service systems
- Monitor BTA progress on Master Data and MIL/DLMS programs

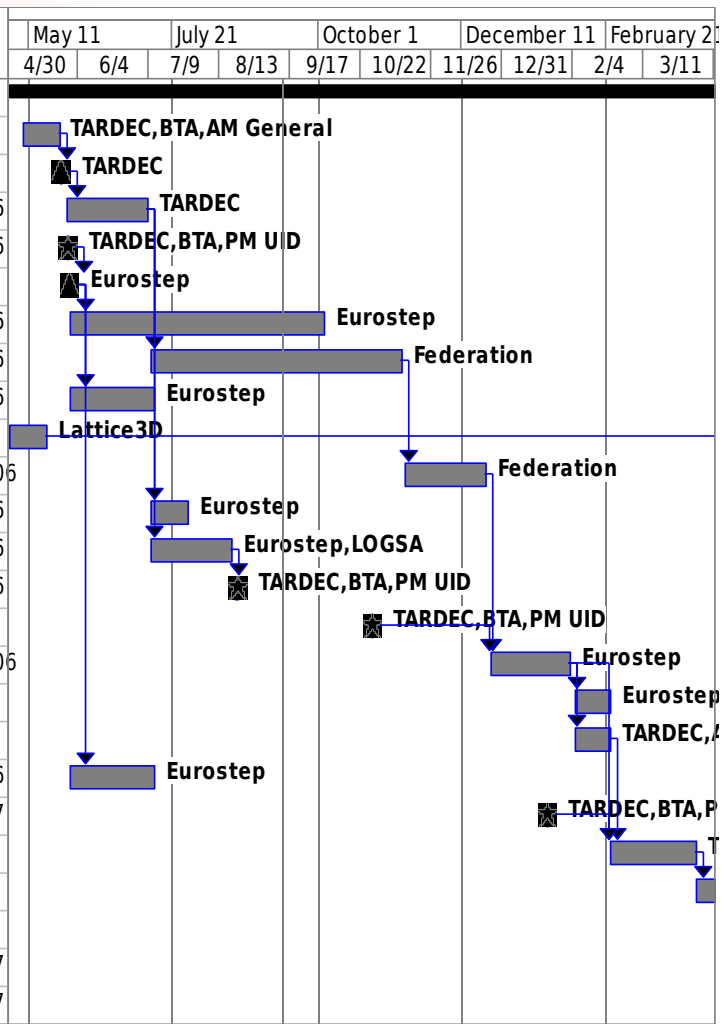
Status

- Marine LAV - 11 sensed vehicles the response mechanisms are in place.
- JSF - 10 sensed vehicles the response mechanisms are in place.
- Marine LAV - This needs to be developed as system data strategy. SPOE could be re-used if available on time
- JSF - SPOE program sponsored by BTA
- ELITE (PLCS) - H60 AMC/NavAir/Sikorsky (Standards Rationalization)
- CLOE vs. JALog vs. SPAWARS vs. BWS vs. Etc.
- Marine LAV - ICATS possible with work to be defined and completed
- JSF - ICATS possible due to this being an Air Force system
- Marine LAV - BTA working Master Data and MILS/DLMS
- JSF - BTA working Master Data and MILS/DLMS



TARDEC HMMWV PLCS-IUID

ID		Task Name	Duration	Start	Timeline													
					May 11		July 21		October 1		December 11		February 21					
					4/30	6/4	7/9	8/13	9/17	10/22	11/26	12/31	2/4	3/11				
1		TACOM-HMMWV PLCS Pilot	291 days?	Mon 5/1/06														
2		Develop & refine project plan with deliverables & milestones with	14 days	Mon 5/8/06	TARDEC, BTA, AM General													
3		Implementation architecture and methodology (Deliverable)	1 day?	Fri 5/26/06	TARDEC													
4		Contract prep with Federation and Eurostep	30 days	Mon 5/29/06	TARDEC													
5		Program review meeting	1 day?	Mon 5/29/06	TARDEC, BTA, PM UID													
6		UID schema based on PLCS DEX (Deliverable)	1 day?	Tue 5/30/06	Eurostep													
7		Formalization of UID schema through OASIS	90 days	Wed 5/31/06	Eurostep													
8		Development of SAP PLCS Federation adpaters	90 days	Mon 7/10/06	Federation													
9		Implementation of PLCS based UID exchange to DOD Registry	30 days	Wed 5/31/06	Eurostep													
10		Integration with Lattice3D 3D visualization viewer	14 days	Mon 5/1/06	Lattice3D													
11		PLCS tech data Integration between AMG's SAP PLM and TACOM	30 days	Mon 11/13/06	Federation													
12		Installation and integration of Share-a-space with Windchill	14 days	Mon 7/10/06	Eurostep													
13		Integration of LSAR data from AMG's Powerlog into Share-a-space	30 days	Mon 7/10/06	Eurostep, LOGSA													
14		Program review meeting	1 day?	Mon 8/21/06	TARDEC, BTA, PM UID													
15		Program review meeting	1 day?	Fri 10/27/06	TARDEC, BTA, PM UID													
16		Integration of tech data and log data in PLCS format into Share-	30 days	Mon 12/25/06	Eurostep													
17		Develop PLCS functional views based on Share-a-space	14 days	Mon 2/5/07	Eurostep													
18		Load "as-designed" armor kits data into system from SAP	14 days	Mon 2/5/07	TARDEC, A													
19		Develop PLCS based UID exchange between AM General's SAP ar	30 days	Wed 5/31/06	Eurostep													
20		Program review meeting	1 day?	Mon 1/22/07	TARDEC, BTA, P													
21		Load "as-built" armor kit configurations as they become available	30 days	Fri 2/23/07	T													
22		Develop "what-is" scenarios based on integrated system	30 days	Fri 4/6/07														
23		Pilot demonstrations of integrated system / Meeting at TACOM	1 day?	Fri 5/18/07														
24		Develop business case including ROI analysis for system	15 days	Mon 5/21/07														
25		Final project report completed (Deliverable)	1 day?	Mon 6/11/07														





Marine LAV Phase 1

PHASE I EVENT	RESPONSIBILITY
Develop demonstration project plan	PMLAV
Select components to mark in demonstration phase	PMLAV
Establish IUID marking guidelines	PMLAV
Procure IUID marking equipment	PMLAV
Identify IUID training requirements	PMLAV
Modify VAMMP program to integrate IUID	JDSR
Identify requirements for integration of VAMMP IUID data to infrastructure (AMIS)	JDSR
Complete Proof of Concept demonstration	PMLAV



Marine LAV Phase 2

PHASE II EVENT	RESPONSIBILITY
Review lesson learned in Phase I	PMLAV
Identify benefits/risks discovered during Phase I	PMLAV
Identify necessary action to reduce risk	PMLAV
Develop detailed overall Project Plan	PMLAV
Rewrite VAMMP in a web based application	JDSR
Ensure compliance with MIL-STD-130L	PMLAV
Procure UID Marking equipment	PMLAV
Complete training	PMLAV
Modify existing policies and procedures for UID	PMLAV
Complete integration with IUID database	PMLAV/JDSR
Identify and address remaining implementation issues	PMLAV
Initiate marking of parts	PMLAV
Define business rules to gain maximum benefit from IUID implementation	PMLAV
Write Final Project Report	PMLAV

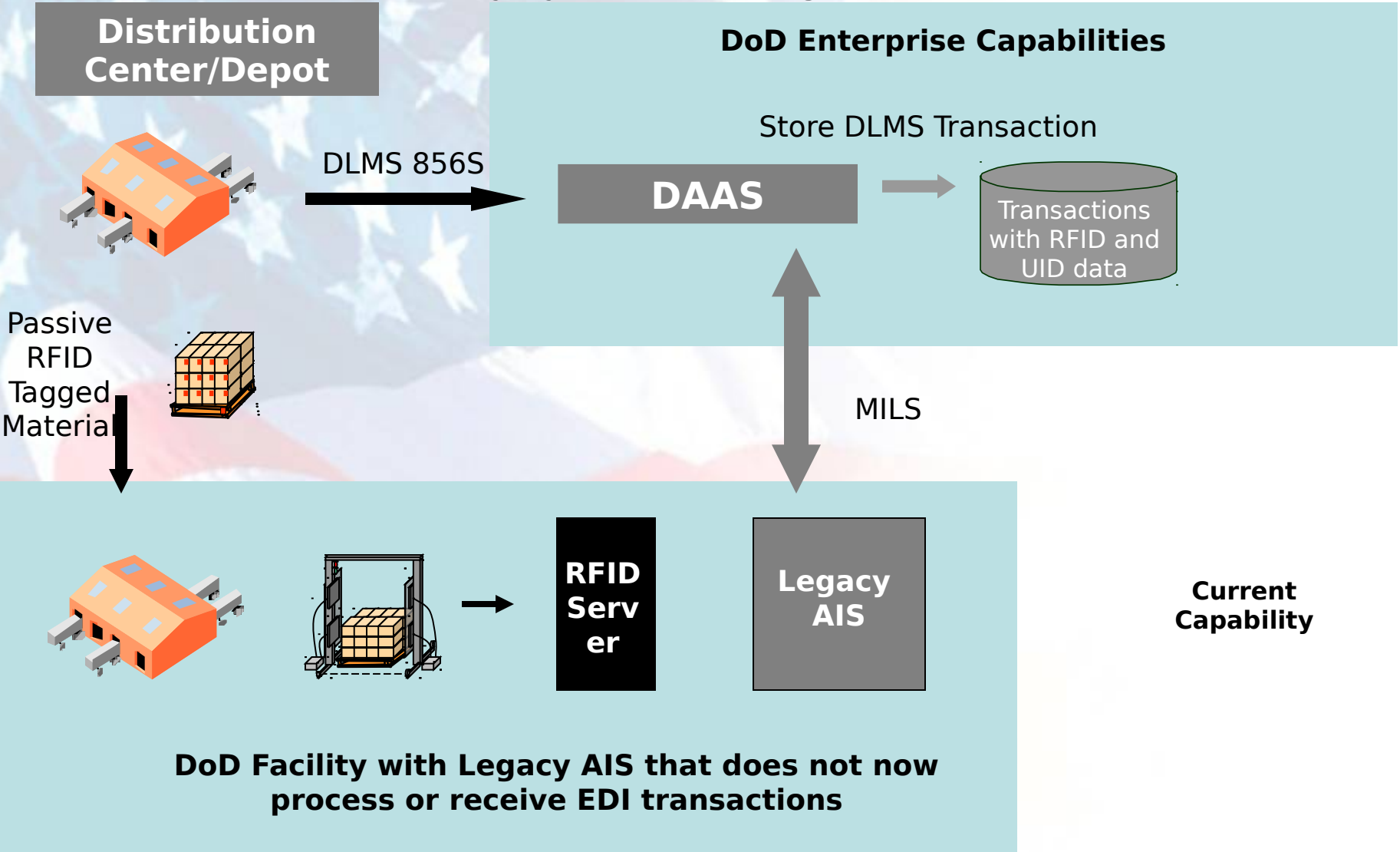


DLMS Bridge Prototype

DLMSO/DAASC
September 2006

The legacy AIS processes MILS transactions and related data.

Problem: How can the legacy AIS use passive RFID data to perform supply-type receiving functions?





Related Issues and Objectives

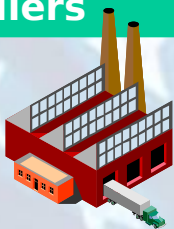
- Related Issues (Problems):
 - Inability of legacy systems to operate in DLMS environment now (not until 2010, 2011, 2012 or beyond for permanent solution, ERP, etc.)
 - Lack of middleware solution for integration of RFID and legacy systems
 - Lack of data exchange and visibility due to legacy systems inability to accept RFID, IUID, etc.
- Objectives (Desired Outcome):
 - Enable use of RFID data by legacy systems (sooner rather than later), provide *temporary* solution until permanent is available
 - Enable DLMS transactions and RFID receiving process (system integration) through DLMS middleware
 - Provide data exchange and visibility through DLMS middleware functionality



Middleware Solution: RFID data flows from the shipping activities to the DoD legacy systems. GEX is the entry point for Manufacturers (or Vendors) EDI and DAASC is the entry point for DSS EDI.

**Manufacturers/
Vendor
Suppliers**

Shipper
Material



DLMS - 856

**Distribution
Centers/ Depots
Suppliers**

Tagged
Material



DLMS - 856S
DLMS - 856A

DoD Enterprise Logistics Systems

GEX

WAWF

DAAS

856
527

**UID
Registry**

856
856S
856A
527

MILS

DLMS or MILS determined
by customer system
profile

**Other
Trading**

Updates for NICP,
Requisitioner,
USTRANSCOM,
LOGSA, IDE-AV, etc.

**RFID
interroga
tor
software**

**DLMS
Bridge**

**Legacy
AIS**

RF Tag ID MILS AE_AS_ DR_

**DoD Facility that
cannot receive EDI
transactions**



DLMS Bridge Prototype - What Has Actually Been Done?

- A DLMS Bridge prototype has been developed (as briefed Jan 06).
 - Middleware for use between Passive RFID (PRFID) and legacy logistics system (AIS).
 - External interfaces unspecified so emulations used (PRFID test kit).
 - Completed without benefit of a site survey (some educated guesses).
- The “Bridge” has several discrete capabilities including:
 - A “Normalizer” to account for variations in X12 transactions
 - Data processor to “parse” the incoming data into reusable form
 - Database to manage the tag and transaction data
 - DLMS to MILS mapping capability for legacy transactions (works with 856S for now)
 - DDN wrapper for MILS transactions
 - Basic error handling for mismatches between DLMS 856S and RFID data
 - Limited query capability for tag reads
 - Notification transaction capability for DAASC update.

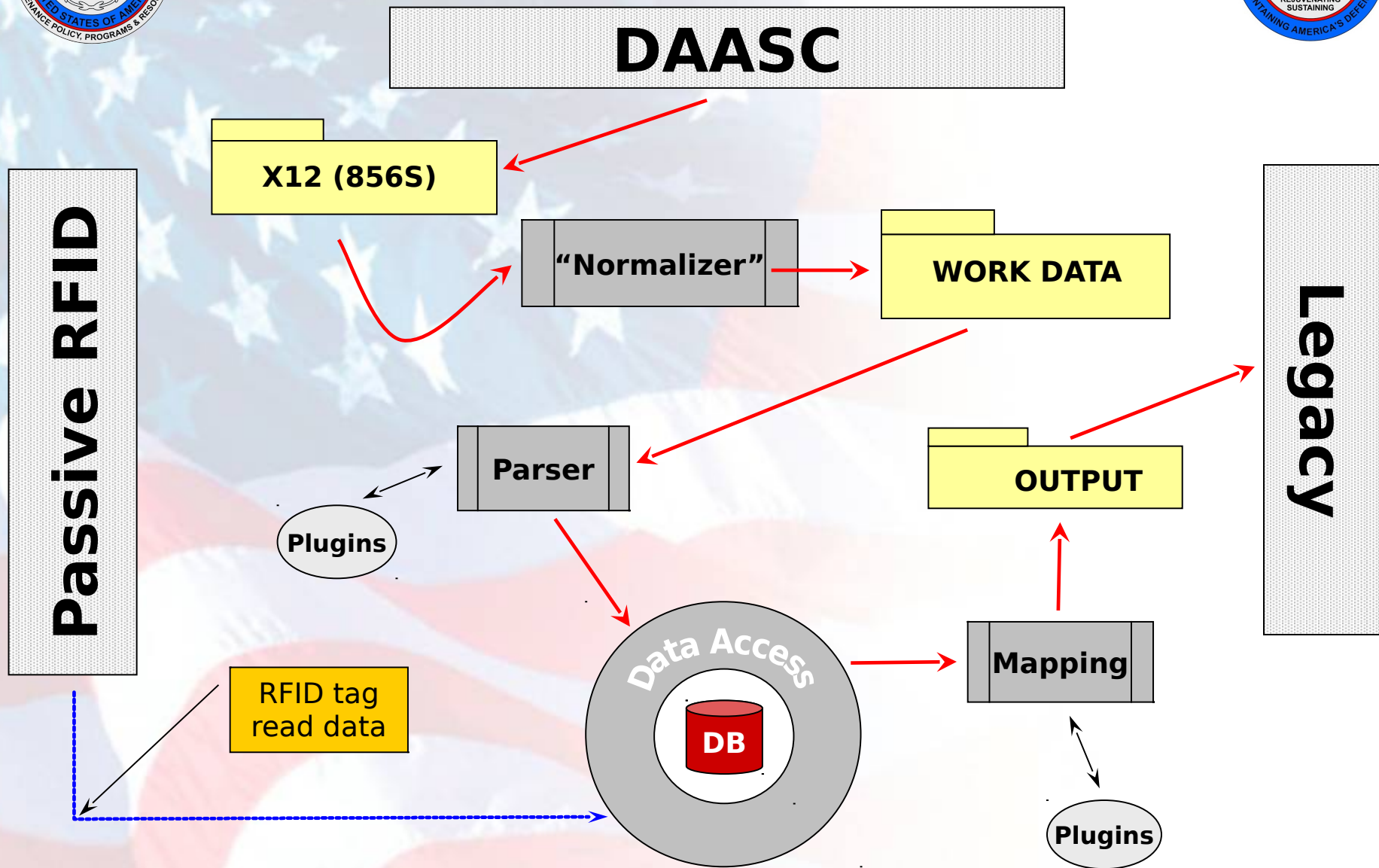


What Does the Prototype Do?

- Processes Passive RFID tag read data and DLMS 856S data (with placeholder for IUID).
- Converts DLMS transactions to corresponding MILS transactions.
- Prepares new transactions for reporting purposes (DAASC, LOTS and legacy logistics system).
- Can be modified to accommodate user defined output requirements other than DLMS or MILS ("flat file", "data set", XML, etc.).

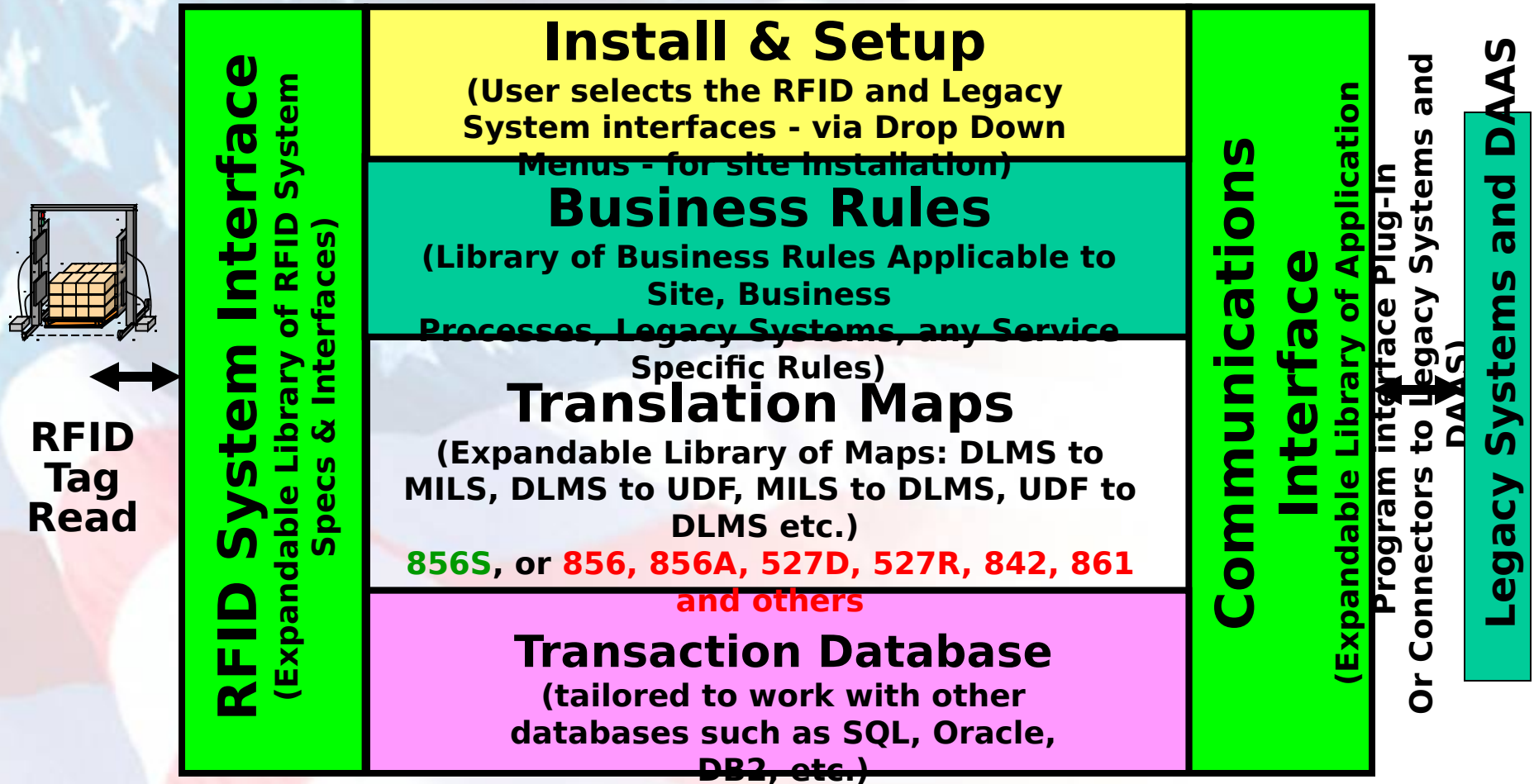


DLMS Bridge Processing Flow





DLMS BRIDGE Architecture



**Technical Architecture: Modular Construction, Hardware Independent, JAVA-
Multiple O/S (Win XP & Linux for now), Centralized Configuration Management**



Summary

- The DLMS Bridge prototype has technical capabilities that provide DLMS to MILS translation; it can be modified to process other transactions as needed (UDF, data set, etc.).
- The DLMS Bridge prototype is a “middleware” solution that also addresses other challenges coming soon (IUID data, finance (SFIS) data, transportation data, etc.).
- It is ready now for tailoring to a specific system (next step - schedule a site survey).



Enterprise Integration Hub Features



...



Value Chain

Business Intelligence

Business Process Management

Translation & Transformation

Reliable Messaging between Disparate Systems



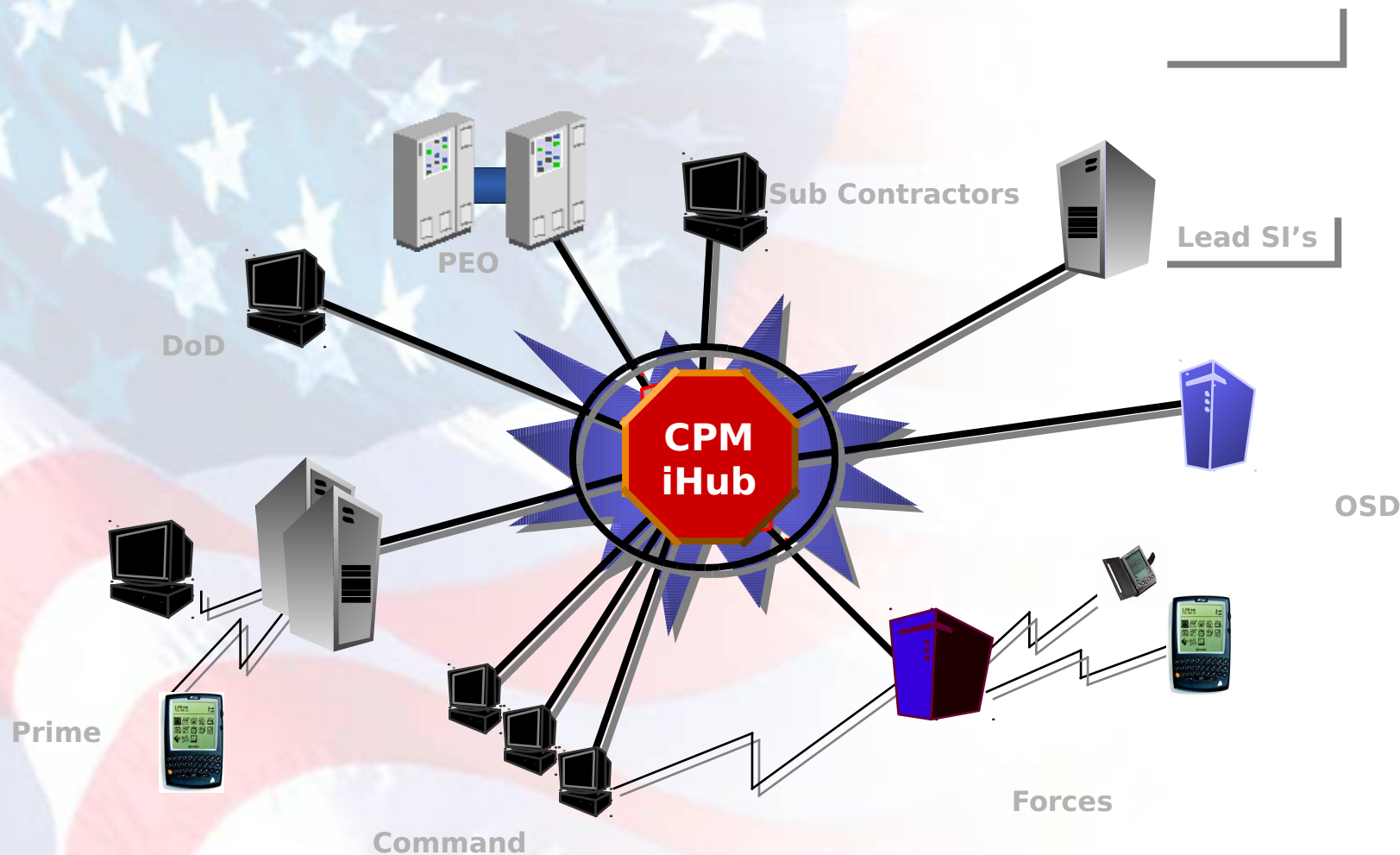
...



System Silos

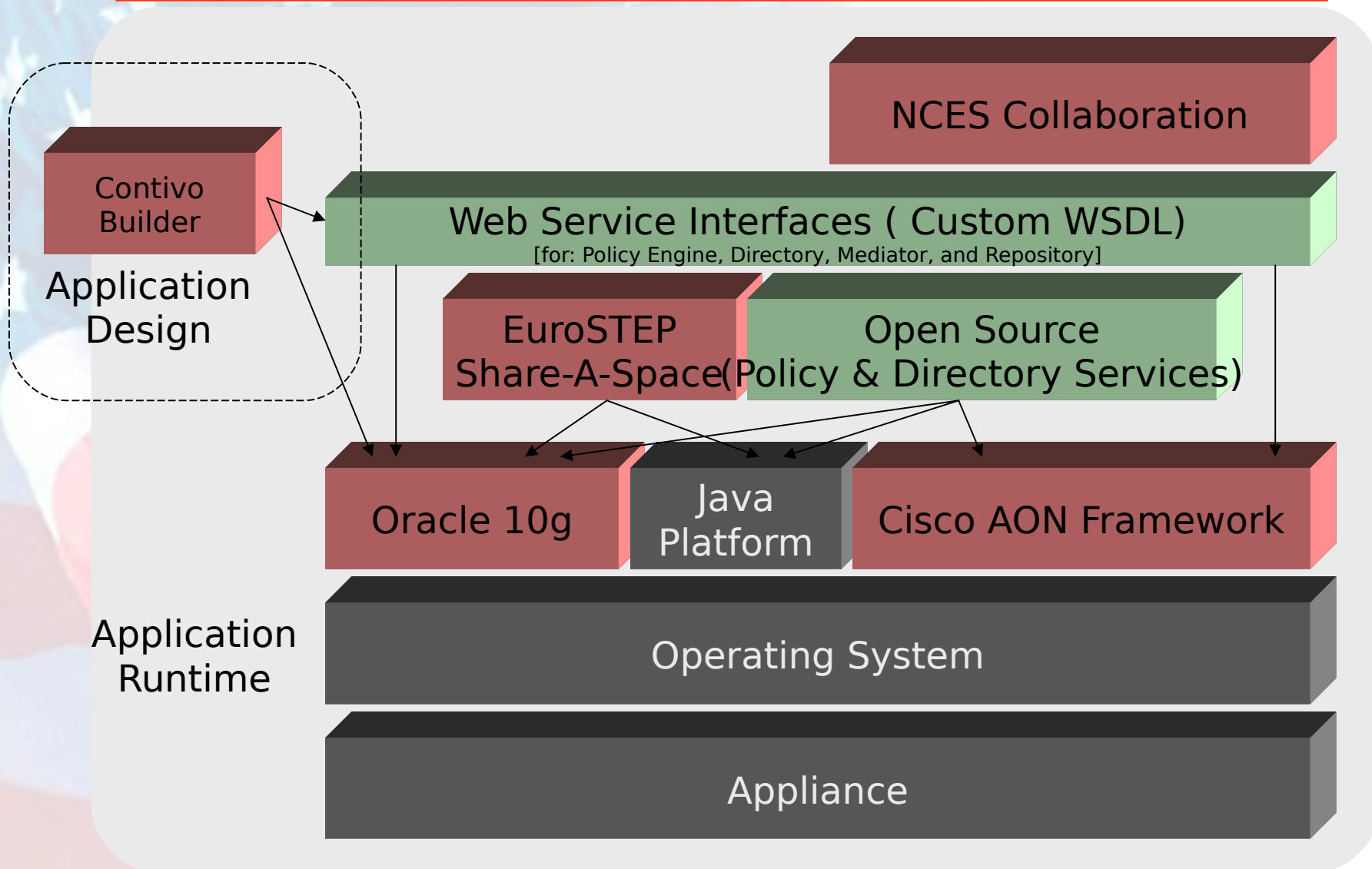


Oracle's Collaborative Program Management Hub (iHub)





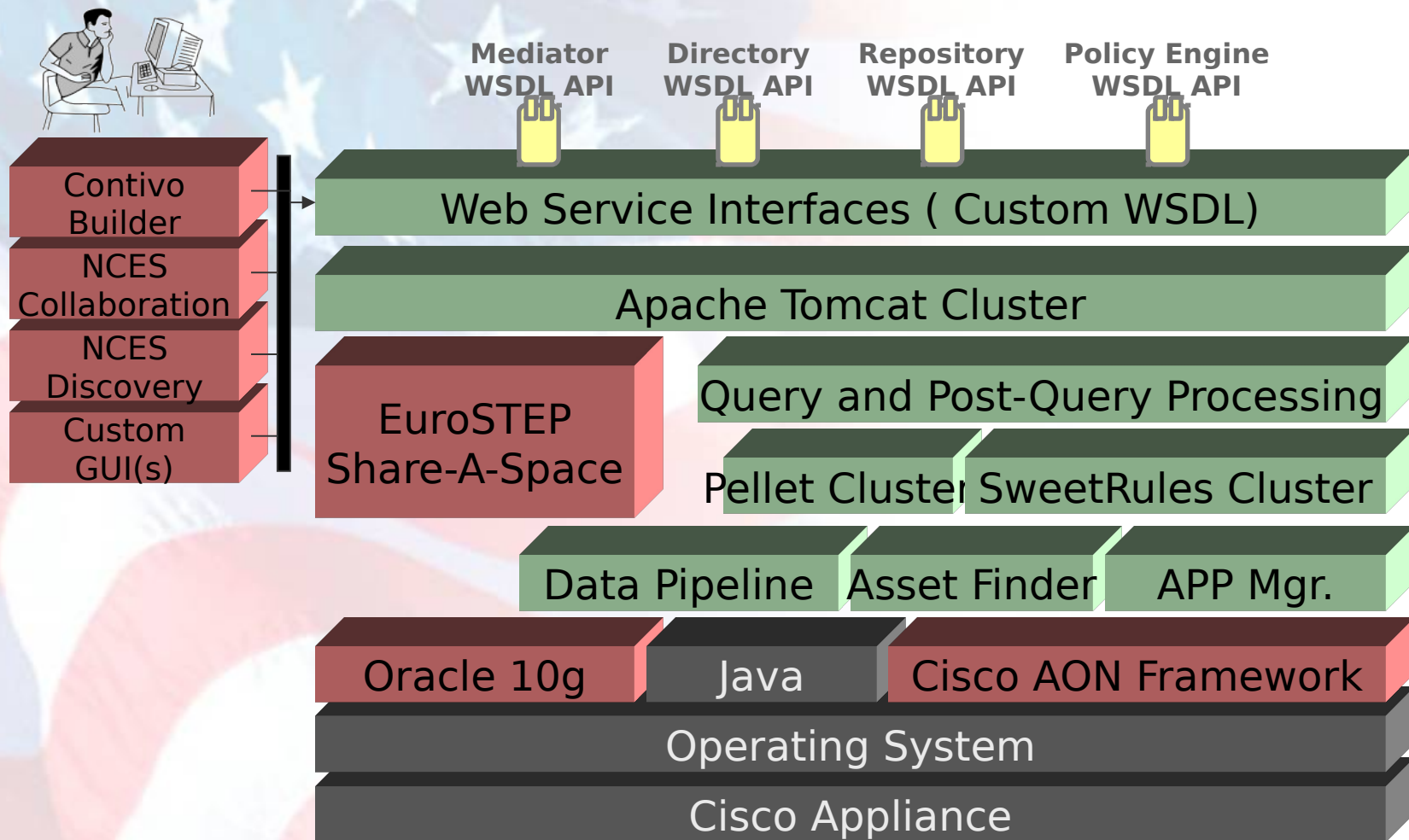
Data Interoperability Architecture





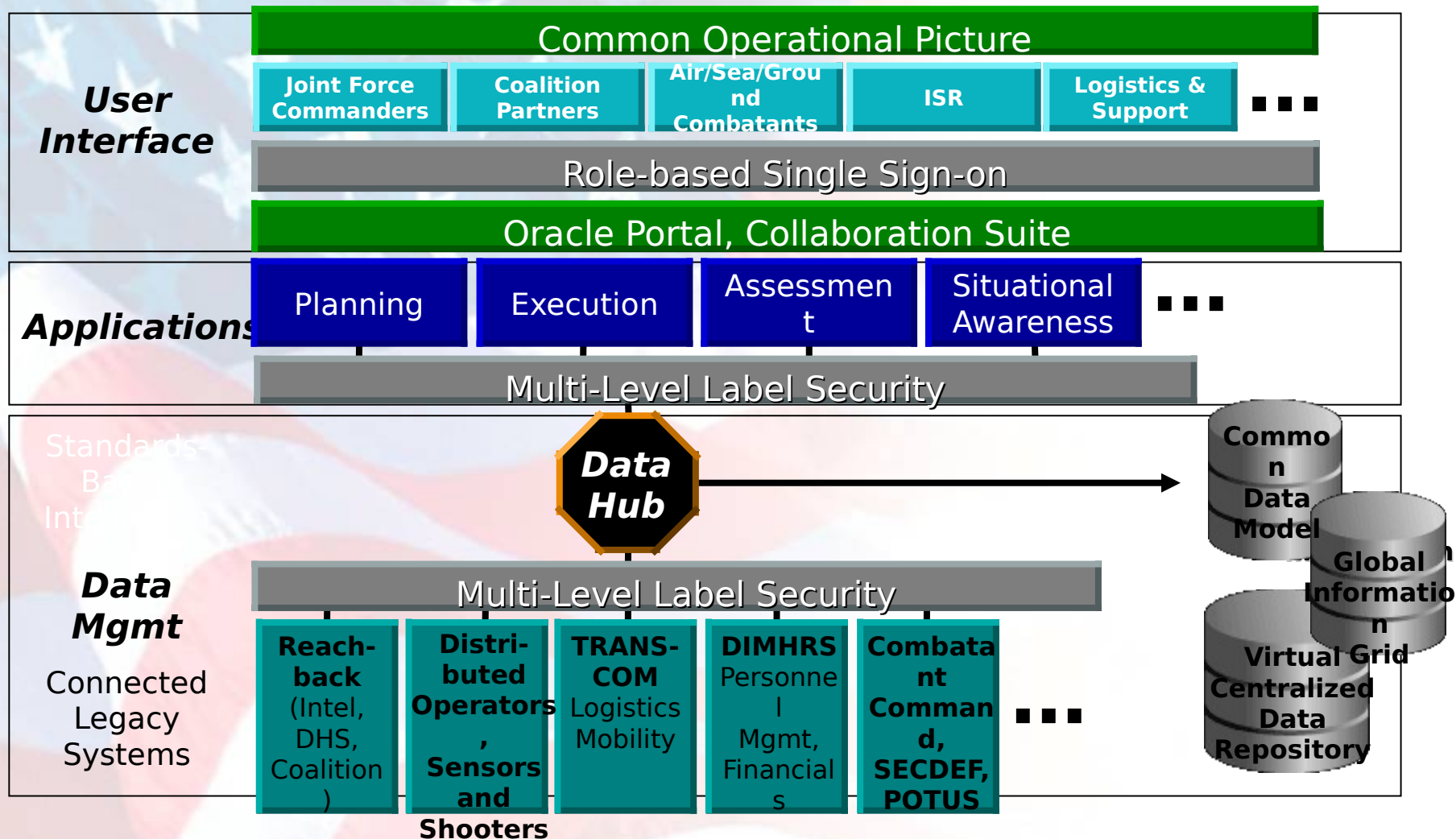
Data Interoperability Architecture

Full Stack



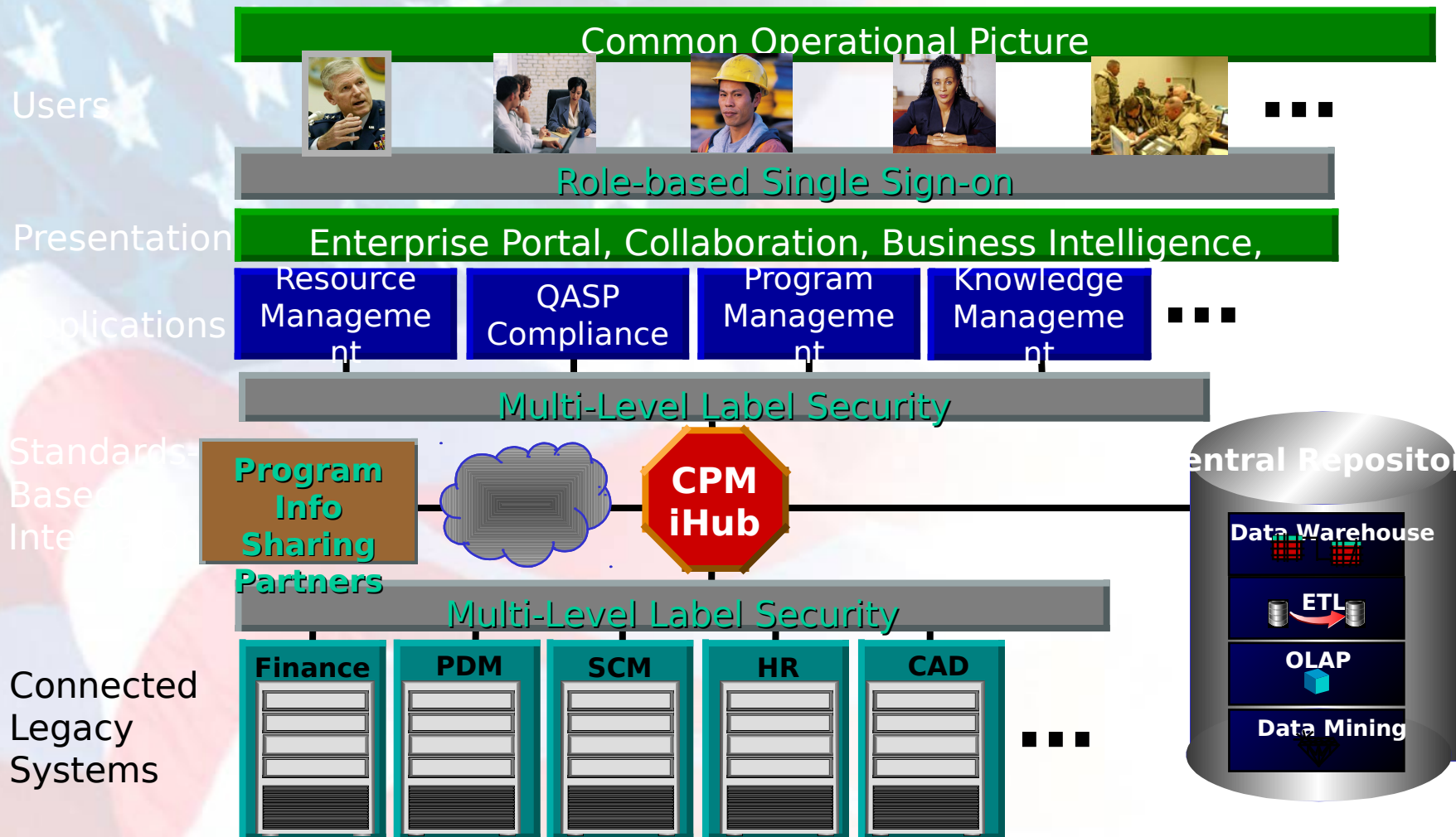


Oracle NCO Reference Architecture



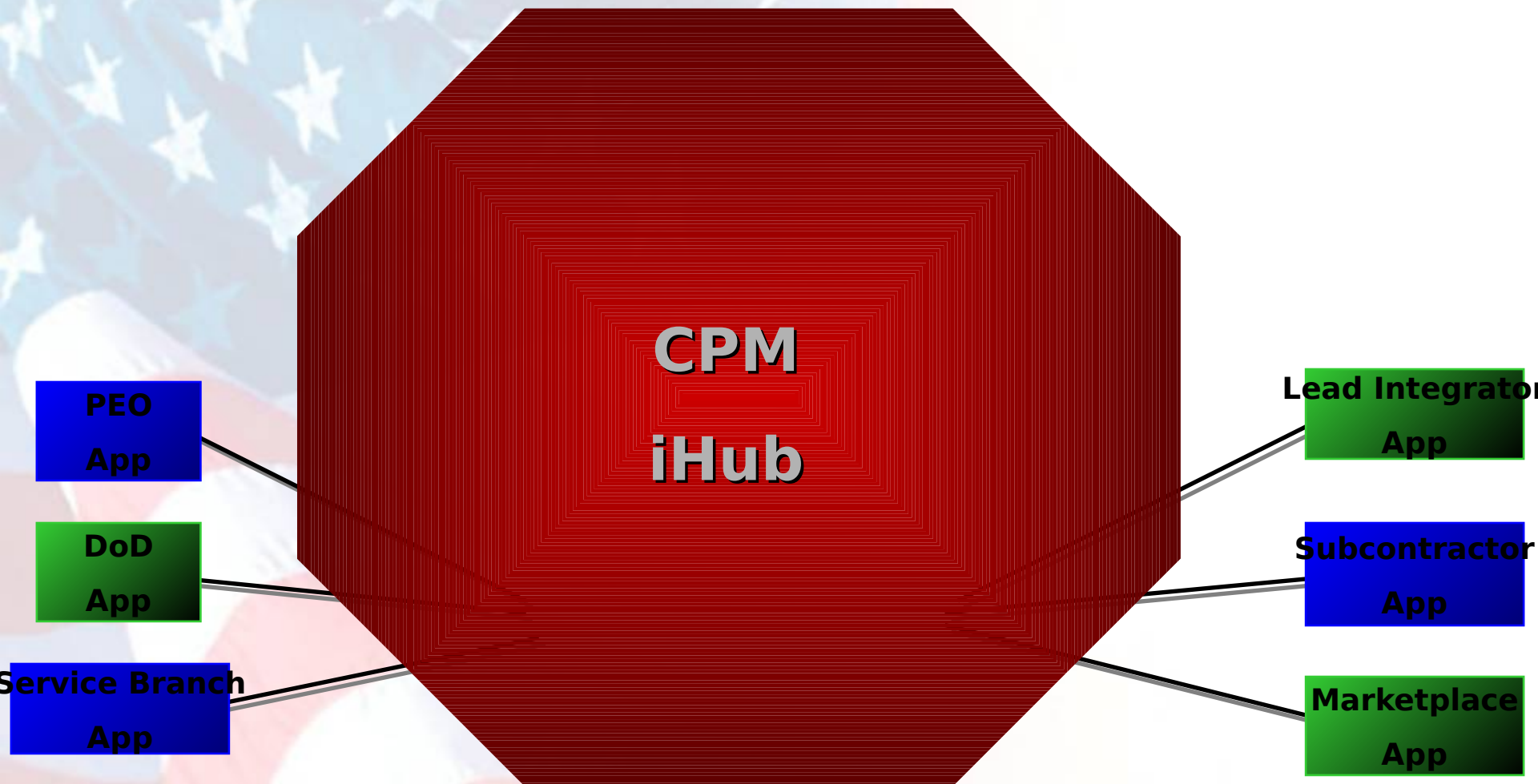


CPM iHub Solution Architecture



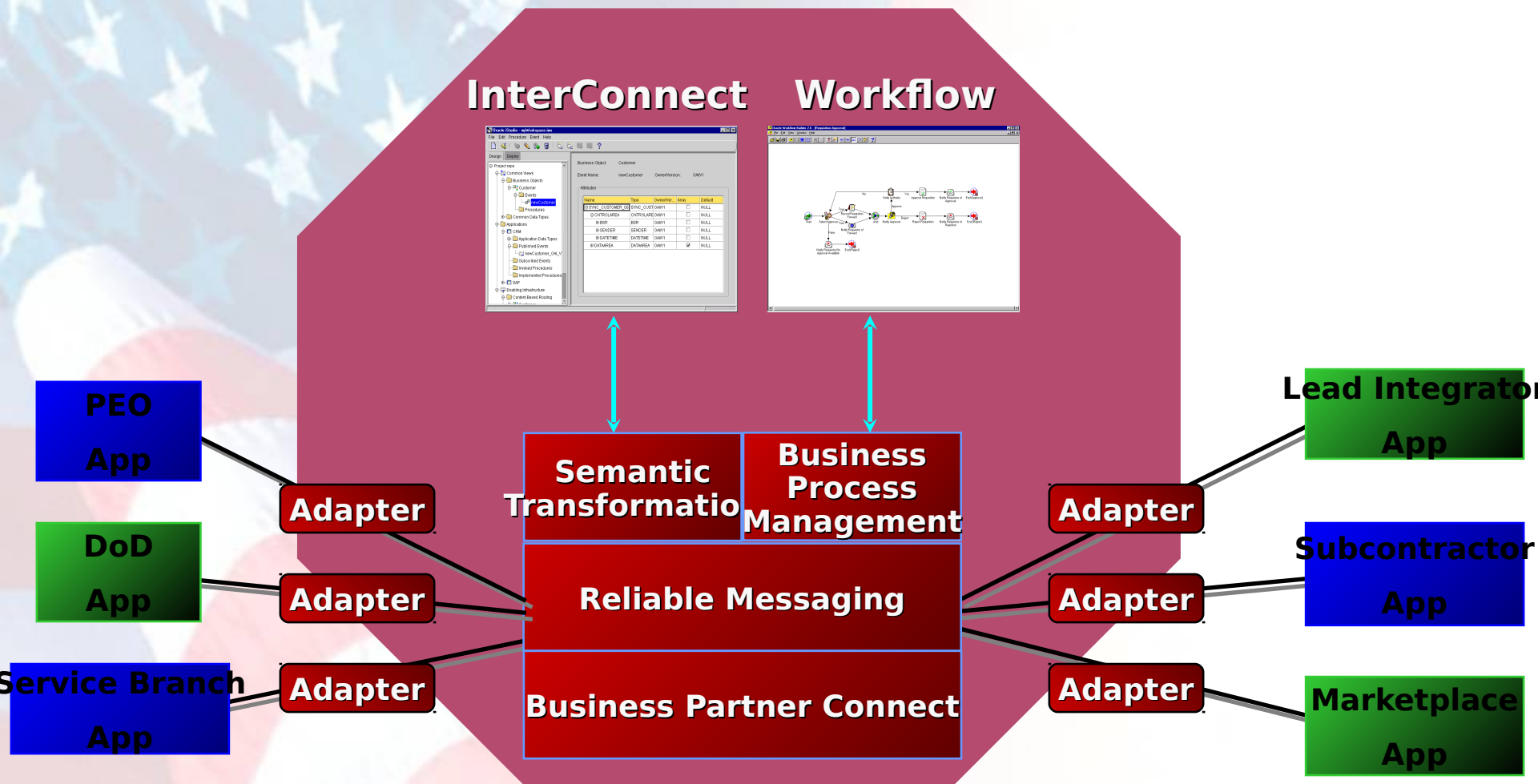


A look inside the CPM iHub





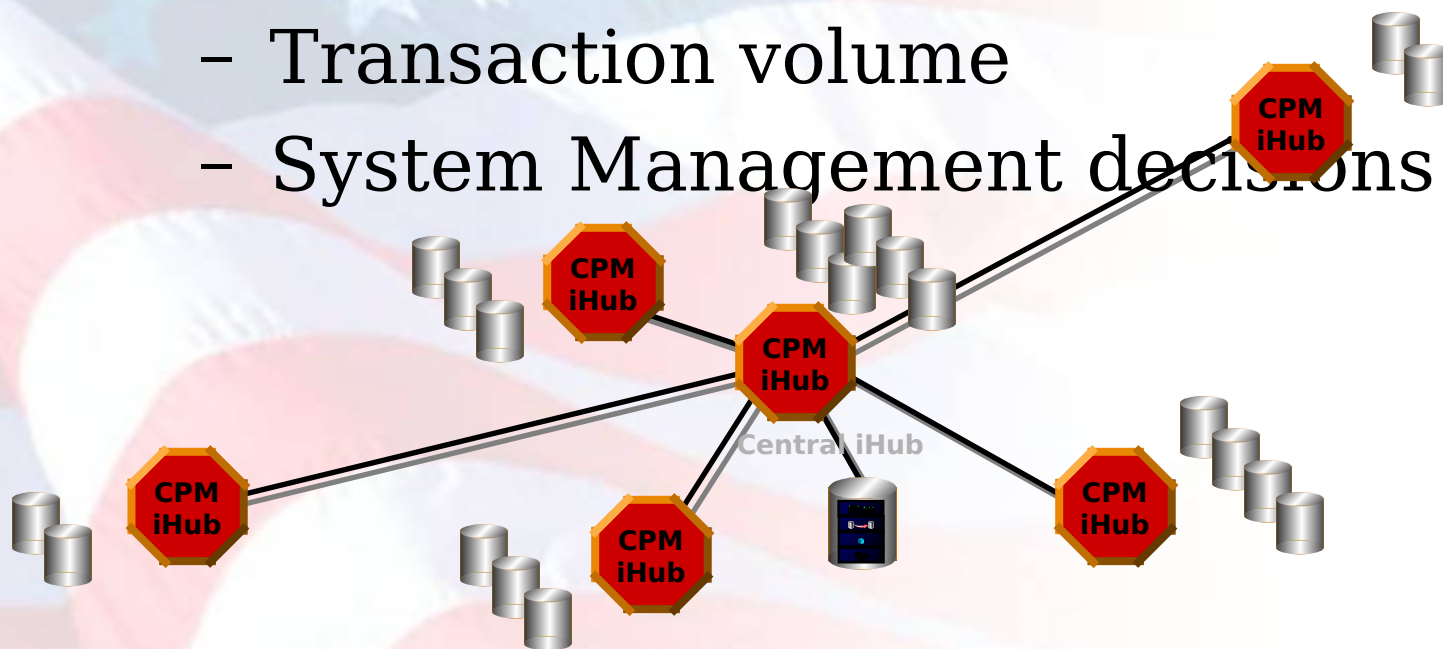
A look inside the CPM iHub





Collaborative Program Management Network

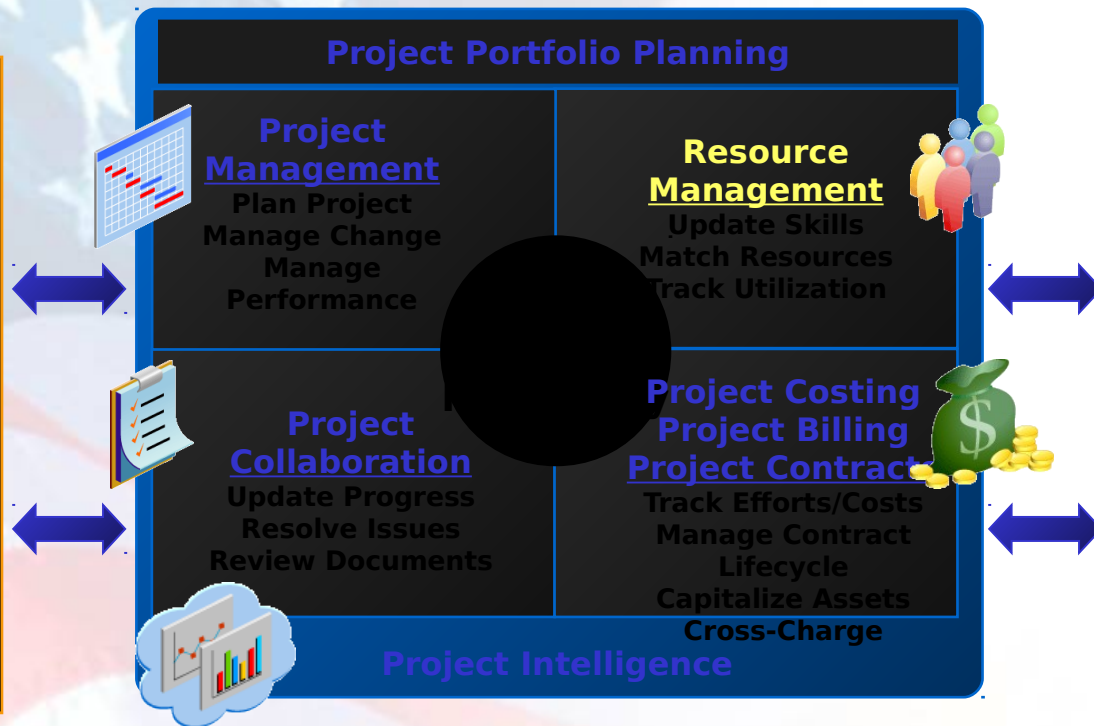
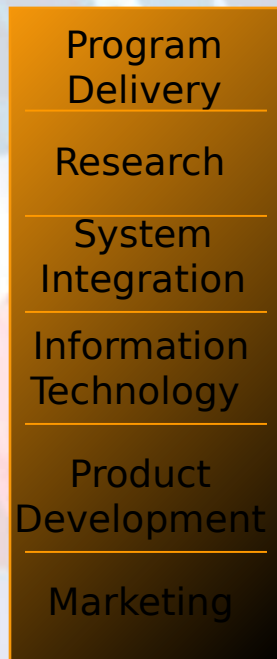
- An iHub may be networked with other iHubs across a GRiD fabric, based upon:
 - Transaction volume
 - System Management decisions





Oracle Collaborative Program Management

Program Initiatives



Enterprise Integration



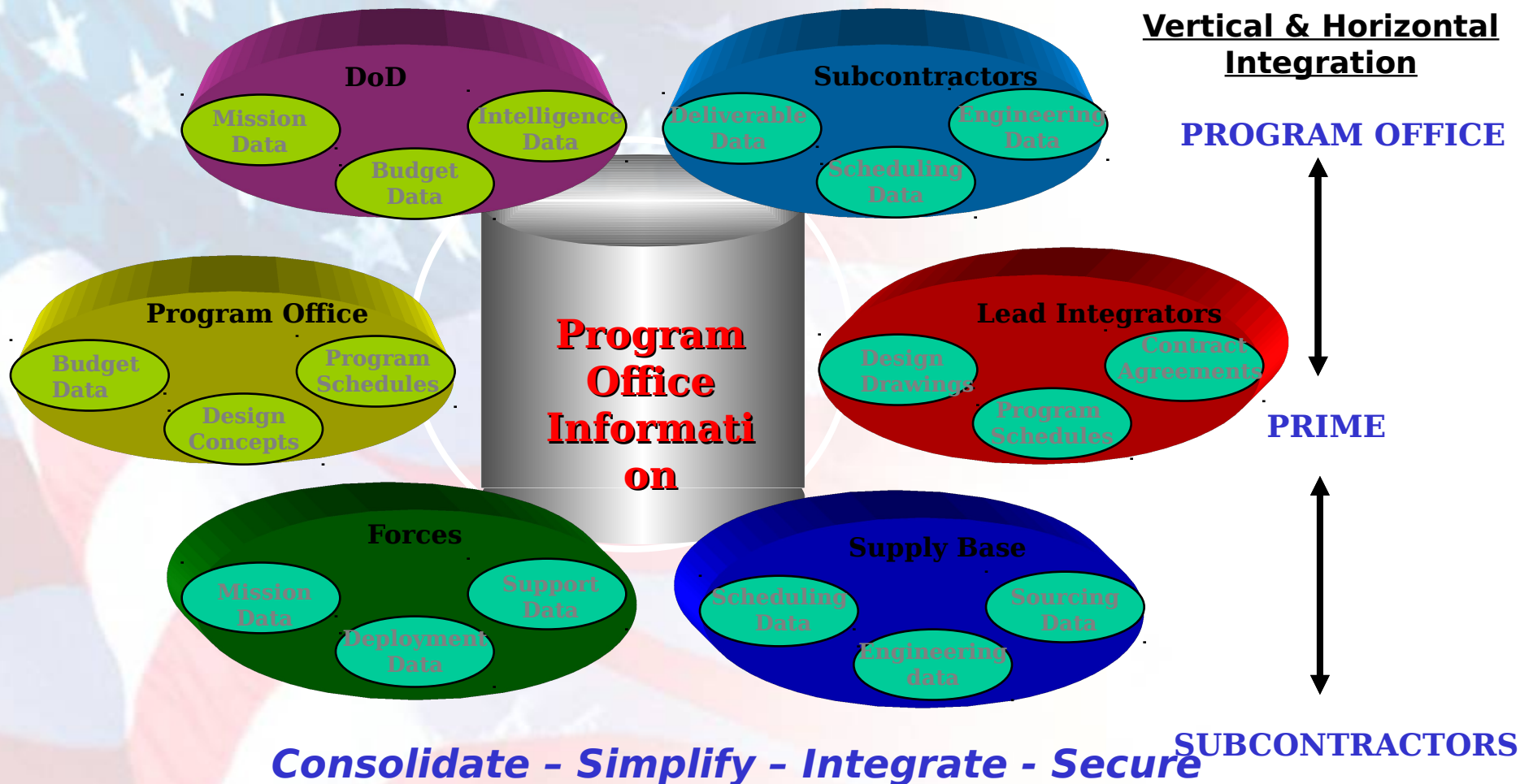
Personalized
Role-Based Views



The Bigger Picture

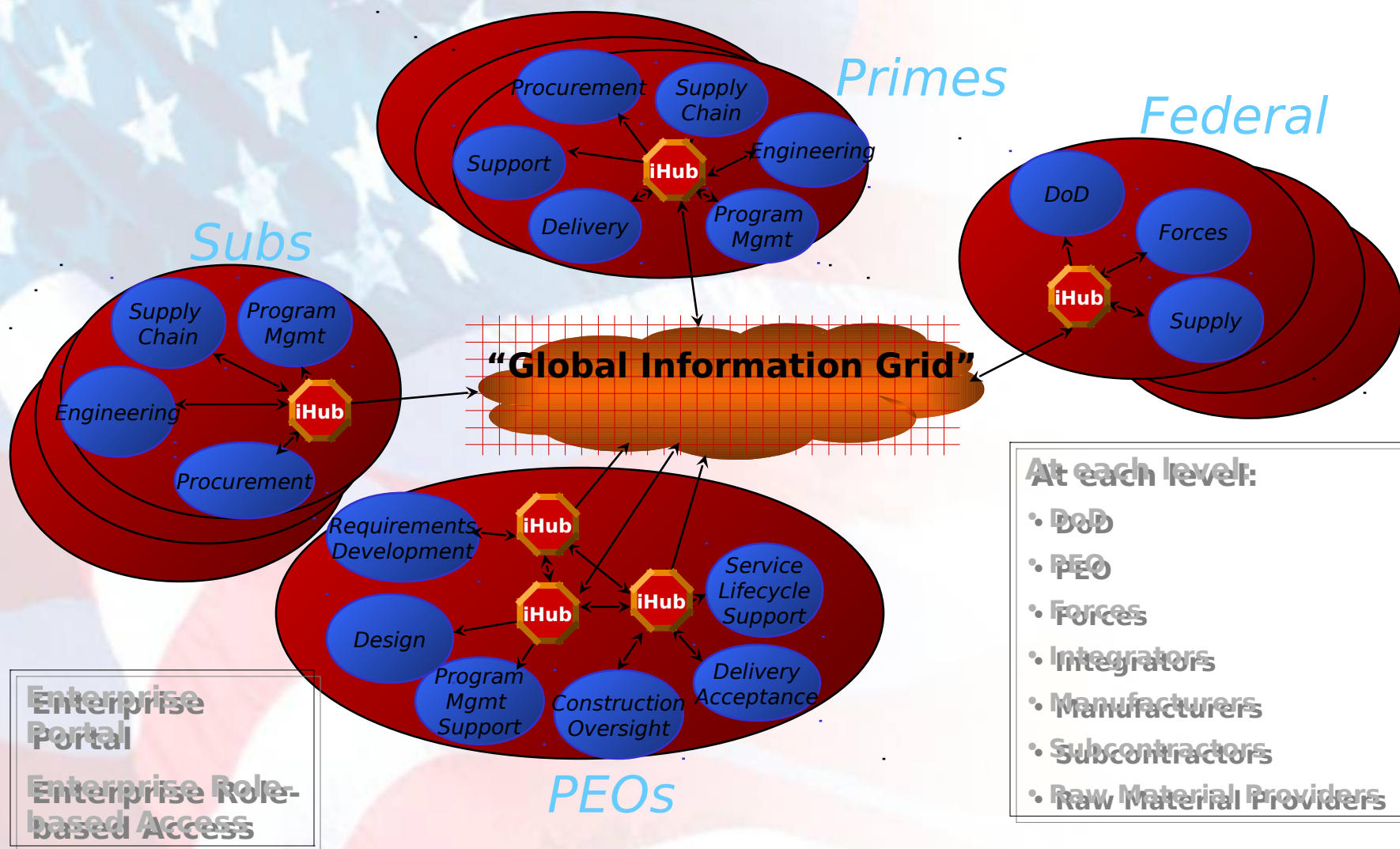


Building the pieces for Network-Centric Collaborative Program Management





The Future—Powered by Grid Computing





ICATS

In-Transit Critical Asset Tracking System



- **ICATS is a management tool that provides end to end visibility information in a context and volume previously unavailable**
- **Genesis - After 9/11, the need to “hand massage” and “birddog” critical parts being shipped into a new Theater of Operations and provide instant status to warfighter**
- **ICATS is a tool for:**
 - **Unit-level supply personnel**
 - **Regional Supply Squadrons (RSS)**
 - **Air Logistics Centers / Supply Chain Managers**
 - **Major Command Headquarters**
 - **CONUS Distribution Mgt Cell (CDMC) and Logistics Readiness Center (LRC)**
- **Answers Most Important Questions**
- **WHERE IS MY PART?**
- **WHEN WILL I GET IT?**

ICATS

In-Transit Critical Asset Tracking System

[Login](#) | [Register](#) | [FAQ](#) | [Contacts/Support](#)

Registration

Title:

First Name:

Last Name:

Email Address:

Organization:

Account Type:

Password:

Confirm Password:

[Lost your validation](#)

Diego Garcia, Diego Garcia
Diego Garcia, Diego Garcia
Djibouti, Djibouti
Dushanbe, Tajikistan
Fairford, England
Ganci, Kyrgyzstan
Incirlik, Turkey
Jacobabad, Pakistan
Kandahar, Afghanistan
Karshi Khanabad, Uzbekistan
King Faisals AB, Al Jafr, Jordan
Kuwait City, Kuwait

Warfighter registers for location of interest

← → ✕ ↻ 🏠 🔍 ⭐ 🔄 📧 🖨️ 📄 📁 🔍 👤

AFMC LSO | TRACKER

ICATS

In-Transit Critical Asset Tracking System

User Account | **Shipment Summary** | Shipment Feedback | FAQ | Contacts/Support | Logout

Last Update: 3/3/2006 09:40 EST

Feedback:
New: 0
Open: 0
Closed: 0

TCN Requests:
Open: 0
Retrieved: 0
Not found: 0

Shipment Summary: After logging in only shipments are displayed that user registered in this case Diego Garcia shipments are displayed,

Drag a column header here to group by that column

TCN	Destination	Estimated Delivery Date	Status	ICATS Mode	Mode	Progress	Shipment Feedback
FB487253559170	Diego Garcia	01-04-2006		AMC	J	214 DELIVERY	[Add Feedback]
FB487253559171	Diego Garcia						[Add Feedback]
FB487253559172	Diego Garcia						[Add Feedback]
FB487253569170	Diego Garcia			AMC		SHIP (AS/AR)	[Add Feedback]
FB487253569171	Diego Garcia						[Add Feedback]
FB487253569172	Diego Garcia	12-30-2005		AMC	J	214 DELIVERY	[Add Feedback]
FB487253579170	Diego Garcia	12-31-2005		AMC	J	214 PICKUP	[Add Feedback]
FB487253579171	Diego Garcia						[Add Feedback]
FB487253609172	Diego Garcia	01-04-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487253609173	Diego Garcia	01-05-2006		AMC	J	214 PICKUP	[Add Feedback]
FB487253619171	Diego Garcia	01-05-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487253620776	Diego Garcia			AMC		SHIP (AS/AR)	[Add Feedback]
FB487253639171	Diego Garcia	01-05-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487260020589	Diego Garcia						[Add Feedback]

Find TCNRequest TCN Tracking

1

Have the ability to search by TCN
Would like to add place holders for searches by Doc #, NSN, UID and RFID Tag
Place holders would not be active for the POC

ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 09:40 EST

Feedback: **TCN Requests:**

New: 0	Open: 0
Open: 0	Retrieved: 0
Closed: 0	Not found: 0

User Account | [Shipment Summary](#) | Shipment Feedback | FAQ | Contacts/Support | Logout

After reviewing the EDDs warfighter could generate feedback
Asking for more explanation or expedite service

Shipment Summary:

Drag a column header here to group by that column

TCN	Destination	Estimated Delivery Date	Status	ICATS Mode	Mode	Progress	Shipment Feedback
FB487253559170	Diego Garcia	01-04-2006		AMC	J	214 DELIVERY	[Add Feedback]
FB487253559171	Diego Garcia						[Add Feedback]
FB487253559172	Diego Garcia						[Add Feedback]
FB487253569170	Diego Garcia			AMC		SHIP (AS/AR)	[Add Feedback]
FB487253569171	Diego Garcia						[Add Feedback]
FB487253569172	Diego Garcia	12-30-2005		AMC	J	214 DELIVERY	[Add Feedback]
FB487253579170	Diego Garcia	12-31-2005		AMC	J	214 PICKUP	[Add Feedback]
FB487253579171	Diego Garcia						[Add Feedback]
FB487253609172	Diego Garcia	01-04-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487253609173	Diego Garcia	01-05-2006		AMC	J	214 PICKUP	[Add Feedback]
FB487253619171	Diego Garcia	01-05-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487253620776	Diego Garcia			AMC		SHIP (AS/AR)	[Add Feedback]
FB487253639171	Diego Garcia	01-05-2006		AMC	J	SHIP (AS/AR)	[Add Feedback]
FB487260020589	Diego Garcia						[Add Feedback]

Find TCN

Request TCN Tracking

Click on Add Feedback

ICATS

In-Transit Critical Asset Tracking System

[User Account](#) | [Shipment Summary](#) | [Shipment Feedback](#) | [FAQ](#) | [Contacts/Support](#) | [Logout](#)

Shipment Feedback Detail

TCN:	FB487253619171
Current Status:	New
Date Entered:	3/3/2006
Date Closed:	N/A
Resolution:	N/A
Initial Problem Description:	can you get this shipped via Diego Airlink

Shipment Feedback Discussion

There are no discussion items for this feedback.

[Add Discussion.](#)

Warfighter adds comments,
Automatically updates CDMC view

ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 09:06 EST
 New Feedback: 1
 Open TCN Requests: 3
 Last Database Update: N/A

Workload | User Management | Feedback Management | System Tools | Logout

Workload Management

CDMC view

New feedback is displayed
 CDMC needs to respond

Drag a column header here to group by that column

CDMC #	TCN	Destination	EDD	Progress	Status	ICATS Mode	POE	POD	Engine?	Mode
40993	FB487260059170	Diego Garcia							No	
28470	FB487260069170	Diego Garcia	01-11-2006	POE RCPT		AMC	OKO	NKW	No	J
28471	FB487260069200	Diego Garcia							Yes	
28472	FB487260069201	Diego Garcia	01-14-2006	214 PICKUP		AMC	SUU	NKW	Yes	J
28473	FB487260069202	Diego Garcia		214 PICKUP		CC			Yes	J
28474	FB487260069203	Diego Garcia	01-14-2006	214 PICKUP		AMC	SUU	NKW	Yes	J
28475	FB487260069204	Diego Garcia	01-17-2006	214 PICKUP		AMC			Yes	J
28476	FB487260079170	Diego Garcia	01-18-2006	ORIGIN RCPT		AMC			No	J
28477	FB487260079171	Diego Garcia							No	
28478	FB487260079172	Diego Garcia							No	
28479	FB487260079173	Diego Garcia							No	
28480	FB487260079174	Diego Garcia							No	
28481	FB487260079175	Diego Garcia							No	
28482	FB487260080000	Diego Garcia							No	

Edit/Add TCN

Workload management prioritizes workload



ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 08:13 EST
New Feedback: 1
Open TCN Requests: 3
Last Database Update: N/A

[Workload](#) | [User Management](#) | [Feedback Management](#) | [System Tools](#) | [Logout](#)



Workload Management

Able to sort based on EDDs

EDD ▲

EDD : 01-05-2006 (3)	▲
EDD : 01-06-2006 (7)	
EDD : 01-07-2006 (7)	
EDD : 01-08-2006 (3)	
EDD : 01-09-2006 (4)	
EDD : 01-10-2006 (2)	
EDD : 01-11-2006 (1)	
EDD : 01-12-2006 (6)	
EDD : 01-13-2006 (1)	
EDD : 01-14-2006 (3)	
EDD : 01-16-2006 (1)	
EDD : 01-17-2006 (1)	
EDD : 01-18-2006 (1)	
EDD : 01-19-2006 (1)	▼

2 ▼

ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 08:13 EST

New Feedback: 1

Open TCN Requests: 3

Last Database Update: N/A

[Workload](#) | [User Management](#) | [Feedback Management](#) | [System Tools](#) | [Logout](#)

Workload Management

Able to get general info about shipment

EDD ▲

+ EDD : 01-11-2006 (1)

+ EDD : 01-12-2006 (6)

- EDD : 01-13-2006 (1)

CDMC #	TCN	Destination	Progress	Status	ICATS Mode	POE	POD	Engine?	Mode	Aircraft	CDMC Action?
28453	FB480460099602	AL Udeid, Qatar	ORIGIN RCPT	CC				No	J	C-135	No

+ EDD : 01-14-2006 (3)

+ EDD : 01-16-2006 (1)

- EDD : 01-17-2006 (1)

CDMC #	TCN	Destination	Progress	Status	ICATS Mode	POE	POD	Engine?	Mode	Aircraft	CDMC Action?
28475	FB487260069204	Diego Garcia	214 PICKUP	AMC				Yes	J	ENG	Yes

+ EDD : 01-18-2006 (1)

- EDD : 01-19-2006 (1)

CDMC #	TCN	Destination	Progress	Status	ICATS Mode	POE	POD	Engine?	Mode	Aircraft	CDMC Action?
28487	FB487260099173	Diego Garcia	ORIGIN RCPT	AMC				No	9	B-52	Yes

2 ▼

 [Edit/Add TCN](#)

Click on TCN to get detailed shipment information

ACC MICAP Board

Aircraft:	<input type="text" value="B-52"/>	Tail Number:	<input type="text" value="61A1024"/>	Cann:	<input type="text"/>
TCN:	<input type="text" value="FB487260069170"/>	Engine:	<input type="text"/>		
Description:	<input type="text" value="A-LATCH"/>				
NSN:	<input type="text" value="5342007940714SX"/>	SOS:	<input type="text" value="SMS"/>		
Lead Item:	<input type="text"/>	Problem Item:	<input type="text"/>		
Bullet:	<input type="text" value="AMC:INCHECKED @ YOKOTA AB JP 9 JAN/0639Z...10 JAN/0213/IIW"/>				

ICATS Generated Data

Destination	<input type="text" value="Diego Garcia"/>
ICATS Mode	<input type="text" value="AMC"/>
ICATS Status	<input type="text"/>
Progress	<input type="text" value="POE RCPT"/>
Progress Date	<input type="text" value="1/9/2006"/>

CDMC Toolset:

CDMC Action Required:	<input type="text" value="No"/>
Estimated Delivery Date:	<input type="text"/>
Actual Delivery Date:	<input type="text"/>
Action Taken:	<input type="text" value="A-LATCH"/>

Delivery Window

Earliest Delivery Date:	<input type="text" value="1/11/2006"/>
Projected Delivery Date:	<input type="text" value="1/11/2006"/>
Latest Delivery Date:	<input type="text" value="1/11/2006"/>

Events

P1	<input type="text" value="Jan 6 2006"/>	Ship Date (AS/AR)
P2	<input type="text" value="Jan 6 2006"/>	858 Pickup Date
P3	<input type="text"/>	
P4	<input type="text" value="Jan 6 2006"/>	Origin Rcpt Date (CMOS)
P5	<input type="text" value="Jan 6 2006"/>	Origin Lift Date (CMOS)
P6	<input type="text"/>	214 Pickup Date
P7	<input type="text" value="Jan 9 2006"/>	POE Rcpt Date
P8	<input type="text"/>	POD Lift Date
P9	<input type="text"/>	214 Delivery Date
P10	<input type="text"/>	Termination Rcpt Date
P11	<input type="text"/>	Delivery Date (D6)

Parameters

Mode	<input type="text" value="J"/>
POE	<input type="text" value="OKO"/>
POD	<input type="text" value="NKW"/>
Carrier	<input type="text"/>
Tracking	<input type="text" value="675484497013"/>
RDD	<input type="text"/>
Special Handling	<input type="text"/>

ACC MICAP information automatically displayed,
For POC would add field that displays IUID in this area

ACC MICAP Board

Aircraft:	B-52	Tail Number:	61A1024	Cann:	
TCN:	FB487260069170	Engine:			
Description:	A-LATCH				
NSN:	5342007940714SX	SOS:	SMS		
Lead Item:		Problem Item:			
Bullet:	AMC:INCHECKED @ YOKOTA AB JP 9 JAN/0639Z...10 JAN/0213/IIW				

ICATS Generated Data

Destination	Diego Garcia
ICATS Mode	AMC
ICATS Status	
Progress	POE RCPT
Progress Date	1/9/2006

Delivery Window

Earliest Delivery Date:	1/11/2006
Projected Delivery Date:	1/11/2006
Latest Delivery Date:	1/11/2006

CDMC Toolset:

CDMC Action Required:	No
Estimated Delivery Date:	
Actual Delivery Date:	

Action Taken:	A-LATCH
---------------	---------

Update Record

Cancel & Close

Events

P1	Jan 6 2006	Ship Date (AS/AR)
P2	Jan 6 2006	858 Pickup Date
P3		
P4	Jan 6 2006	Origin Rcpt Date (CMOS)
P5	Jan 6 2006	Origin Lift Date (CMOS)
P6		214 Pickup Date
P7	Jan 9 2006	POE Rcpt Date
P8		POD Lift Date
P9		214 Delivery Date
P10		Termination Rcpt Date
P11		Delivery Date (D6)

Parameters

Mode	J
POE	OKO
POD	NKW
Carrier	
Tracking	675484497013
RDD	
Special Handling	

End to End visibility displayed through events P1-P11.
Would add RFID events into this view.

Parameters of the shipment display other shipping information
RFID tags and passive tag numbers would be added under this section

ACC MICAP Board

Aircraft:	<input type="text" value="B-52"/>	Tail Number:	<input type="text" value="61A1024"/>	Cann:	<input type="text"/>
TCN:	<input type="text" value="FB487260069170"/>	Engine:	<input type="text"/>		
Description:	<input type="text" value="A-LATCH"/>				
NSN:	<input type="text" value="5342007940714SX"/>	SOS:	<input type="text" value="SMS"/>		
Lead Item:	<input type="text"/>	Problem Item:	<input type="text"/>		
Bullet:	<input type="text" value="AMC:INCHECKED @ YOKOTA AB JP 9 JAN/0639Z...10 JAN/0213/IIV"/>				

ICATS Generated Data

Destination	<input type="text" value="Diego Garcia"/>	Delivery Window
ICATS Mode	<input type="text" value="AMC"/>	Earliest Delivery Date: <input type="text" value="1/11/2006"/>
ICATS Status	<input type="text"/>	Projected Delivery Date: <input type="text" value="1/11/2006"/>
Progress	<input type="text" value="POE RCPT"/>	Latest Delivery Date: <input type="text" value="1/11/2006"/>
Progress Date	<input type="text" value="1/9/2006"/>	

CDMC Toolset:

CDMC Action Required:	<input type="text" value="No"/>
Estimated Delivery Date:	<input type="text"/>
Actual Delivery Date:	<input type="text"/>
Action Taken:	<input type="text" value="A-LATCH"/>

Update Record

Cancel & Close

Events

P1	<input type="text" value="Jan 6 2006"/>	Ship Date (AS/AR)
P2	<input type="text" value="Jan 6 2006"/>	858 Pickup Date
P3	<input type="text"/>	
P4	<input type="text" value="Jan 6 2006"/>	Origin Rcpt Date (CMOS)
P5	<input type="text" value="Jan 6 2006"/>	Origin Lift Date (CMOS)
P6	<input type="text"/>	214 Pickup Date
P7	<input type="text" value="Jan 9 2006"/>	POE Rcpt Date
P8	<input type="text"/>	POD Lift Date
P9	<input type="text"/>	214 Delivery Date
P10	<input type="text"/>	Termination Rcpt Date
P11	<input type="text"/>	Delivery Date (D6)

Parameters

Mode	<input type="text" value="J"/>
POE	<input type="text" value="OKO"/>
POD	<input type="text" value="NKW"/>
Carrier	<input type="text"/>
Tracking	<input type="text" value="675484497013"/>
RDD	<input type="text"/>
Special Handling	<input type="text"/>

ICATS generated data due to logistics data and destination specific performance

ACC MICAP Board

Aircraft:	B-52	Tail Number:	61A1024	Cann:	
TCN:	FB487260069170	Engine:			
Description:	A-LATCH				
NSN:	5342007940714SX	SOS:	SMS		
Lead Item:		Problem Item:			
Bullet:	AMC:INCHECKED @ YOKOTA AB JP 9 JAN/0639Z...10 JAN/0213/IIW				

ICATS Generated Data

Destination	Diego Garcia
ICATS Mode	AMC
ICATS Status	
Progress	POE RCPT
Progress Date	1/9/2006

Delivery Window

Earliest Delivery Date:	1/11/2006
Projected Delivery Date:	1/11/2006
Latest Delivery Date:	1/11/2006

CDMC Toolset:

CDMC Action Required:	No
Estimated Delivery Date:	
Actual Delivery Date:	
Action Taken:	A-LATCH

Update Record

Cancel & Close

Events

P1	Jan 6 2006	Ship Date (AS/AR)
P2	Jan 6 2006	858 Pickup Date
P3		
P4	Jan 6 2006	Origin Rcpt Date (CMOS)
P5	Jan 6 2006	Origin Lift Date (CMOS)
P6		214 Pickup Date
P7	Jan 9 2006	POE Rcpt Date
P8		POD Lift Date
P9		214 Delivery Date
P10		Termination Rcpt Date
P11		Delivery Date (D6)

Parameters

Mode	J
POE	OKO
POD	NKW
Carrier	
Tracking	675484497013
RDD	
Special Handling	

CDMC update area, add information based human intervention

ACC MICAP Board

Aircraft:	<input type="text" value="B-52"/>	Tail Number:	<input type="text" value="61A1024"/>	Cann:	<input type="text"/>
TCN:	<input type="text" value="FB487260079172"/>	Engine:	<input type="text"/>		
Description:	<input type="text" value="DOOR, AIRCRAFT"/>				
NSN:	<input type="text" value="1560005756307FG"/>	SOS:	<input type="text" value="FHZ"/>		
Lead Item:	<input type="text"/>	Problem Item:	<input type="text"/>		
Bullet:	<input type="text" value="J.STEVENSON:336-3251...ITEM B/O...ESD 20 JAN/CCMTS...9 JAN/1100/MKS"/>				

ICATS Generated Data

Destination	<input type="text" value="Diego Garcia"/>
ICATS Mode	<input type="text"/>
ICATS Status	<input type="text"/>
Progress	<input type="text"/>
Progress Date	<input type="text"/>

Delivery Window

Earliest Delivery Date:	<input type="text"/>
Projected Delivery Date:	<input type="text"/>
Latest Delivery Date:	<input type="text"/>

CDMC Toolset:

CDMC Action Required:	<input type="text" value="Yes"/>
Estimated Delivery Date:	<input type="text"/>
Actual Delivery Date:	<input type="text"/>

Action Taken:	<input type="text" value="DOOR, AIRCRAFT"/>
---------------	---

Events

P1	<input type="text"/>	Ship Date (AS/AR)
P2	<input type="text"/>	858 Pickup Date
P3	<input type="text"/>	
P4	<input type="text"/>	Origin Rcpt Date (CMOS)
P5	<input type="text"/>	Origin Lift Date (CMOS)
P6	<input type="text"/>	214 Pickup Date
P7	<input type="text"/>	POE Rcpt Date
P8	<input type="text"/>	POD Lift Date
P9	<input type="text"/>	214 Delivery Date
P10	<input type="text"/>	Termination Rcpt Date
P11	<input type="text"/>	Delivery Date (D6)

Parameters

Mode	<input type="text"/>
POE	<input type="text"/>
POD	<input type="text"/>
Carrier	<input type="text"/>
Tracking	<input type="text"/>
RDD	<input type="text"/>
Special Handling	<input type="text"/>

Shipments without pipeline information are backordered items, not in transportation pipeline. After POC would expand visibility of ICATS to start at time of requisition.



ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 10:36 EST
New Feedback: 0
Open TCN Requests: 3
Last Database Update: N/A

[Workload](#) | [User Management](#) | [Feedback Management](#) | [System Tools](#) | [Logout](#)

Shipment Feedback Management:

TCN	Status	Date Opened	Date Closed	
FB481150809600	Closed	02-27-2006	03-03-2006	View Details
FB487253619171	Open	03-03-2006		View Details

CDMC will manage open feedbacks

1

ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 10:38 EST
New Feedback: 0
Open TCN Requests: 3
Last Database Update: N/A

Workload | User Management | Feedback Management | System Tools | Logout

Shipment Feedback Detail

TCN: FB487253619171
Current Status: Open
Date Entered: 3/3/2006
Date Closed: N/A
Resolution: N/A
Initial Problem Description: can you get this shipped via Diego Airlink

Shipment Feedback Discussion

There is currently one discussion item for this feedback.

3/3/2006 - LSO Admin

Add Discussion.

Post Resolution.

Warfighter wants shipment moved via Diego Airlink

ICATS

In-Transit Critical Asset Tracking System

Last Update: 3/3/2006 10:03 EST
New Feedback: 0
Open TCN Requests: 3
Last Database Update: N/A

Workload | User Management | Feedback Management | System Tools | Logout

Shipment Feedback Detail

TCN: FB487253619171
Current Status: Open
Date Entered: 3/3/2006
Date Closed: N/A
Resolution: N/A
Initial Problem Description: can you get this shipped via Diego Airlink

Shipment Feedback Discussion

There is currently one discussion item for this feedback.

3/3/2006 - LSO Admin

Fedex has been notified and will be picking up shipment for delivery to Yokota for AMC delivery to Diego

Add Discussion.

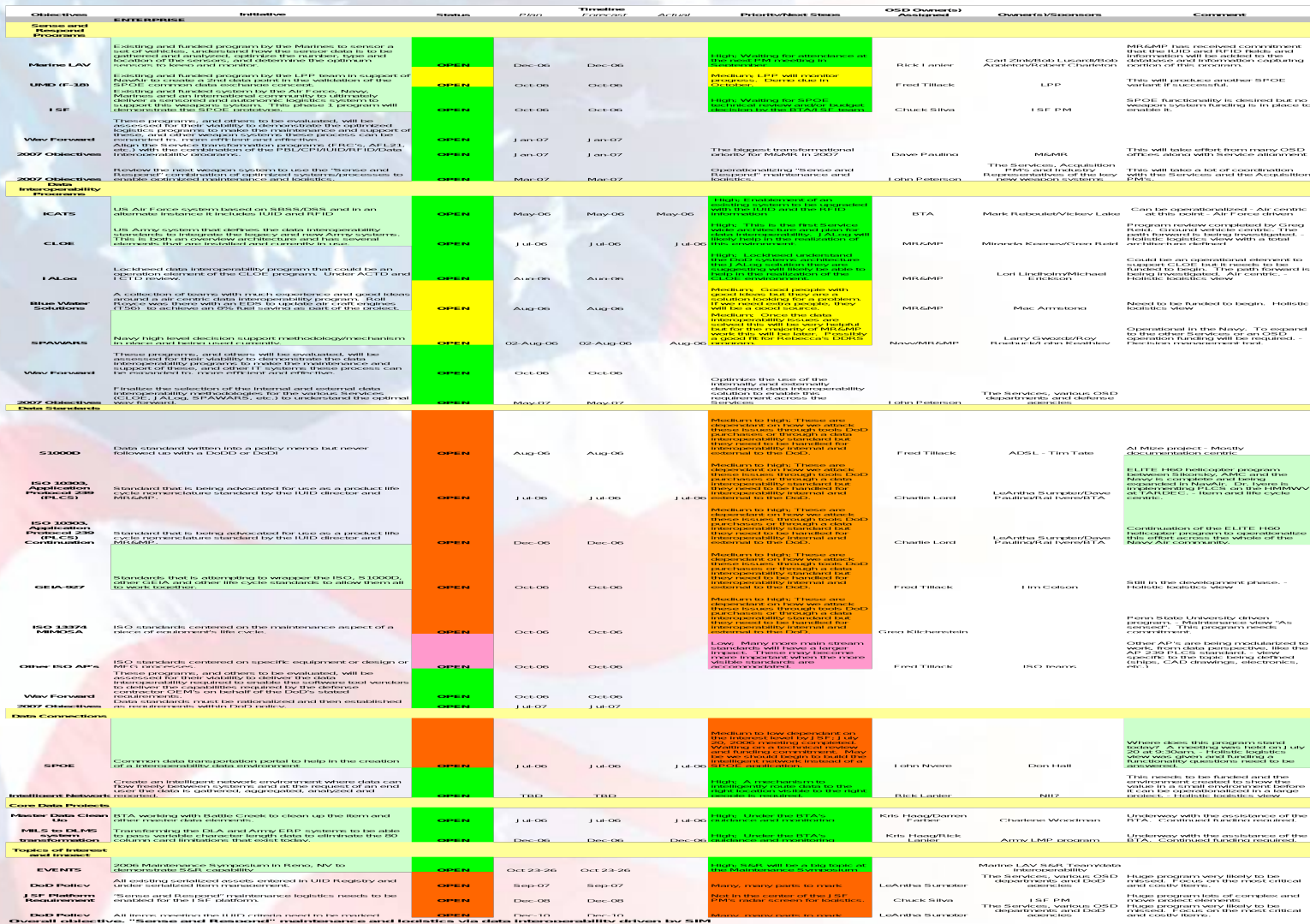
Post Resolution.

CDMC adds their actions taken, which Automatically seen by the warfighter



Next Steps

- Continue to participate with Marine LAV and UMD (F-18) teams to enable S&R, IUID, master data cleanup and data interoperability
 - IUID agreed; vehicle sensor implementation underway, next PM meeting in **October**
 - F-18 demonstration in **October**
- Work with BTA on SPOE and next generation GIG rationalization
 - Work with BTA and the weapons systems program offices (JSF, DDX and FCS) from **October**
- Continue to rationalize the data interoperability programs
 - CLOE (**July 25**), JALog, BWS, SPAWARS (**August 2**). Way ahead meeting on **September 15**
- Work with TLCSM and LPP to select software vendors/standards to enable required capabilities in design and sustainment (H60)
 - Work with LPP/BTA on the rationalization of standards with the software and standards primes next AIA meeting **July 27**
 - Continue to work with the expansion of the ELITE program (NavAir) from **August**
- Work with BTA on materiel visibility programs to take current functionality and expand it to other Service logistics systems
 - ICATS inclusion of IUID/Rfid and the potential expansion of this process to other like systems starting in **September**
- Monitor BTA progress on Master Data and MIL/DLMS programs
 - Continue to monitor the progress of the Master Data cleanup (on-going) and the MILS/DLSM (**December**) programs





Next Steps Services Coverage



	USA	USM C	USAF	USN	DLA	Transco m
Sense						
Interpret Connectio ns						
Interpret Standards						
Interpret Web Services						
Interpret Applicatio ns						
Respond Decision Analysis Tool						

JALog/JSF CLOE (LAV/HMMVW) SPOE BSM Navy Apps (MFOM) SPAWARS



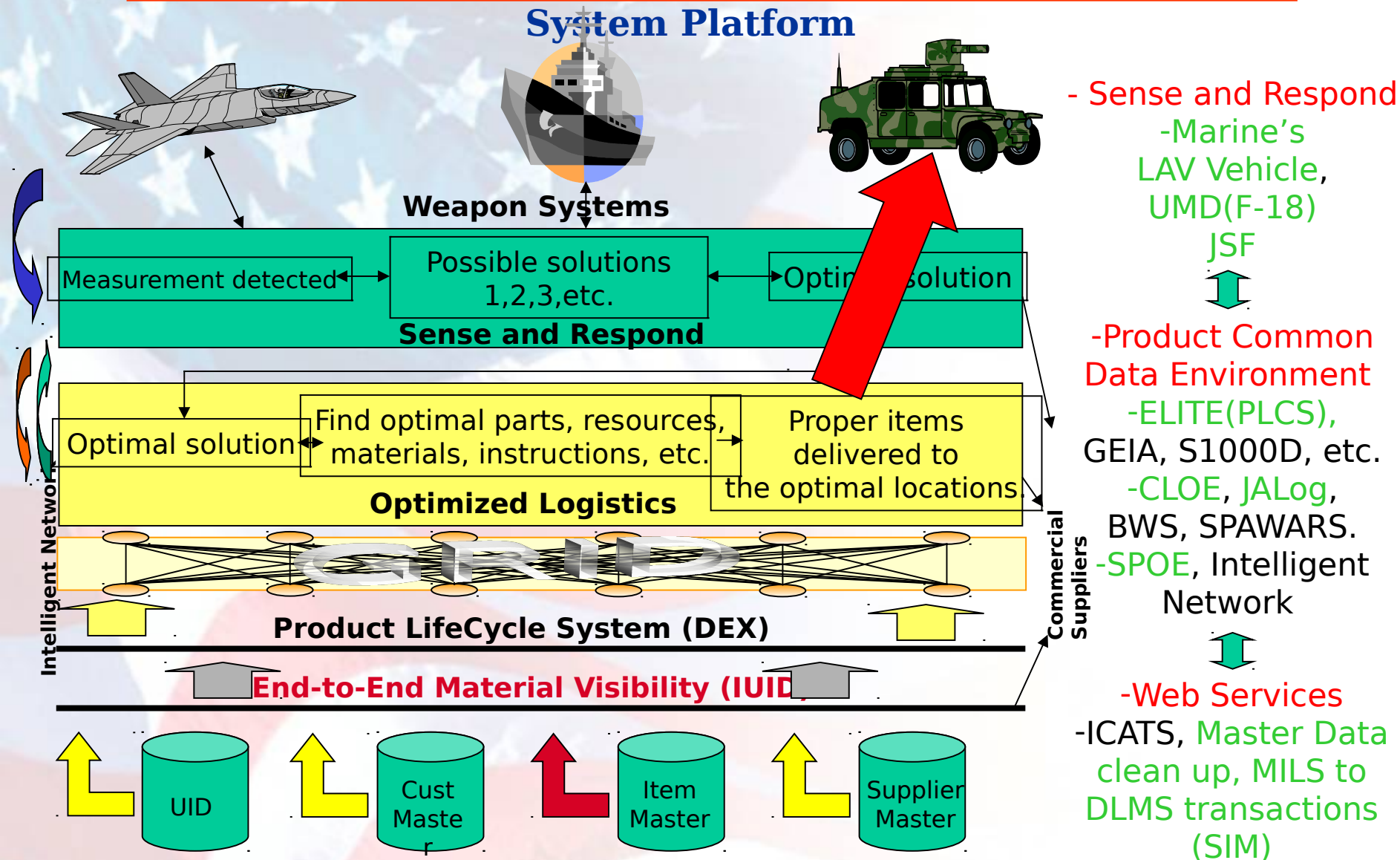
Back Up Slides



Business Processes and IT Technology Stack Required to Deliver a Common Maintenance Process to a Weapon



System Platform

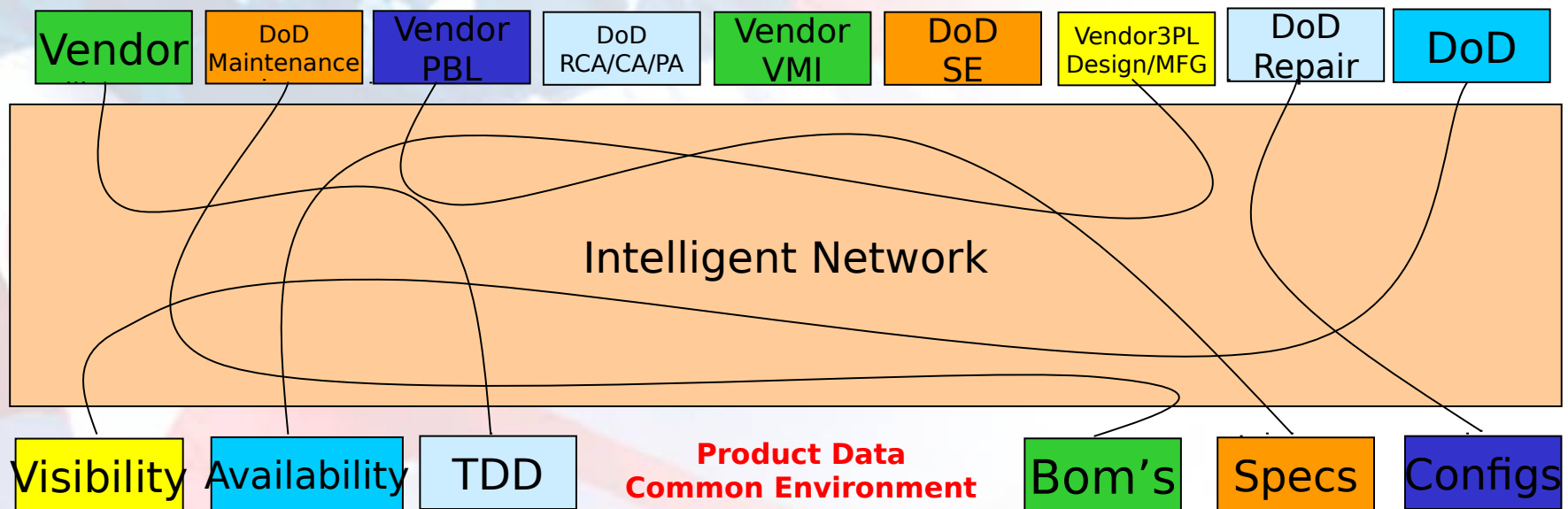




COCOM Demand Pull

Warfighter “Demand Pull-Through”

“Sense and Respond” Optimized Logistics



End-to-End Supply/Maintenance Operations

Web Service enabled “Reach Back”